IFW

AUG 2 1 2006 88

PTO/SB/21 (09-04) Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. Application Number 10/738.371 Filing Date TRANSMITTAL 12/16/2003 First Named Inventor **FORM** Steven R. Soltis Art Unit 2171 Examiner Name (to be used for all correspondence after initial filing) Attorney Docket Number 3000 Total Number of Pages in This Submission **ENCLOSURES** (Check all that apply) After Allowance Communication to TC Drawing(s) Fee Transmittal Form Appeal Communication to Board Licensing-related Papers of Appeals and Interferences Fee Attached Appeal Communication to TC Petition (Appeal Notice, Brief, Reply Brief) Amendment/Reply Petition to Convert to a Proprietary Information Provisional Application After Final Power of Attorney, Revocation Status Letter Change of Correspondence Address Affidavits/declaration(s) Other Enclosure(s) (please Identify Terminal Disclaimer Extension of Time Request below): Copies of Non-Patent Cited Literature; and Request for Refund Express Abandonment Request Return Postcard CD, Number of CD(s) Information Disclosure Statement Landscape Table on CD Certified Copy of Priority Remarks Document(s) Reply to Missing Parts/ Incomplete Application Reply to Missing Parts under 37 CFR 1.52 or 1.53 SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Firm Name BECK & TYSVER, P.L.L.C. Signature Printed name Daniel A. Tysver Reg. No. Date 35,726 2006 CERTIFICATE OF TRANSMISSION/MAILING I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below: Signature ary S. Keller Date 8-17-06 Mary S. Keller Typed or printed name

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



PTO/SB/08A (07-05) Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE ollection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO		Complete if Known				
Substitute for form 1445/1 10		Application Number	10/738,371			
INFORMATION DISCL	OCUBE	Filing Date	12/16/2003			
INFORMATION DISCLOSURE		First Named Inventor	Steven R. Soltis			
STATEMENT BY APPLICANT		Art Unit	2171			
(Use as many sheets as necessary)		Examiner Name				
heet 1 of 2		Attorney Docket Number	3000			

				DOCUMENTS	
Examiner Initials*	Cite No.1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevan Figures Appear
	<u> </u>	Number-Kind Code ^{2 (d known)}			Tigates / Appear
		^{US-} 5,043,876	08-27-1991	Terry	·
		^{US-} 5,561,799	10-01-1996	Khalidi et al.	
		^{US-} 5,652,913	07-29-1997	Crick et al.	
		^{US-} 5,668,958	09-16-1997	Bendert et al.	
		^{US-} 5,828,876	10-27-1999	Fish et al.	
		^{US-} 5,978,773	11-02-1999	Hudetz et al.	
	1	^{US-} 5,909,540	06-01-1999	Carter et al.	
		^{US-} 5,764,972	06-09-1998	Crouse et al.	
		^{US-} 5,909,540	06-01-1999	Carter et al.	
		^{US-} 5,931,918	08-03-1999	Row et al.	
	1	^{US-} 5,987,621	11-16-1999	Duso et al.	
		^{US-} 5,933,603	03-03-1999	Vahalia et al.	
		US- 2002/0112022	08-2002	Kazar et al.	
		^{US-} 5,802,366	09-1998	Row et al.	
		US- 2001/0037406	11-2001	Philbrick et al.	
		US- 5,758,342	05-1998	Gregerson, James Charles	
-		^{US-} 5,202,971	04-1993	Henson et al.	
		^{US-} 5,561,799	10-1996	Khalidi et al.	
		^{US-} 5,740,230	04-1998	Vaudreuil, Gregory M.	

		FORE	IGN PATENT DOCU	MENTS		
Examiner Initials*	Cite No.	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	MM-DD-YYYY		Or Relevant Figures Appear	Τ°
						ļ
						_
	<u> </u>					L
	ļ					╙
	1					

Examiner	Date	
Signature	Considered	
•		

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. The reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. Applicant is to place a check mark here if English language Translation is attached.

Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449/PTO		to respond to a collection of information unless it contains a valid OMB control numb Complete if Known		
Cubothate 10	101111 144001 10		Application Number	10/738,371
INITO	DATATION D	ICCI OCUDE	Filing Date	12/16/2003
INFORMATION DISCLOSURE		First Named Inventor	Steven R. Soltis	
STATEMENT BY APPLICANT		Art Unit	2171	
(Use as many sheets as necessary)		Examiner Name		
eet 2	of	2	Attorney Docket Number	3000

	-		U. S. PATEN	T DOCUMENTS	
Examiner Initials*	Cite No.1	Document Number Number-Kind Code ^{2 (f known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	 	US- 5 750 040	05-1998	Gregerson, James Charles	
	ļ	^{US-} 5,758,342			
		^{US-} 6,442,682	08-2002	Pothapragada et al.	
		^{US-} 6,289,356	09-2001	Hitz et al.	
		U\$-			
		US-			
	†	US-			
	†	US-	-		
		US-			
-	 	US-			
•		US-			
	•	US-			
-	!	US-			
	ļ	US-			
		US-			
		US-			
		US-			

		FORE	IGN PATENT DOCU	MENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	Ţ
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	MM-DD-YYYY		Or Relevant Figures Appear	T ⁶
						_
						┢

Examiner Date	
Signature Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Translation is attached.
This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

·			_	_
se type a plus	sign (+) inside	this box	→ .	+

PTO/SB/08B (10-96)
Approved for use through 10/31/99. OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 2

Complete if Known				
Application Number	10/738,371			
Filing Date	12/16/2003			
First Named Inventor	Soltis, Steven R.			
Group Art Unit	2171			
Examiner Name				
Attorney Docket Number	3000			

		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
Examiner nitials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		T. ANDERSON, M. DAHLIN, J. NEEFE, D. PATTERSON, D. ROSELLI, and R. WANG, "Serverless Network File System," Proceedings of the Fifteenth ACM Symposium on Operating System Principles, 1995, The Association for Computer Machinery (ACM) Press, New York, NY USA.	
		M. DEVARAKONDA, A. MOHINDRA, J. SIMONEAUX, and W. TETZLAFF, "Evaluation of Design Alternatives for a Cluster File System," 1995 USENIX Technical Conference on UNIX and Advanced Computing Systems, Jan 1995, pp. 35-46, USENIX Association, Berkeley, CA USA.	
		G. GIBSON, D. NAGLE, K. AMIRI, F. CHANG, H. GOBIOFF, E. RIEDEL, D. ROCHBERG, and J. ZELENKA, "File Server Scaling with Network-Attached Secure Disks," Proceedings of the ACM International Conference on Measurements and Modeling of Computer Systems, June 1997, The Association for Computer Machinery (ACM) Press, New York, NY USA	
		G. GIBSON, D. NAGLE, K. AMIRI, F. CHANG, E. FEINBERG, H. GOBIOFF, C. LEE, B. OZCERI, E. RIEDEL, D. ROCHBERG, and J. ZELENKA, "Filesystems for Network-Attached Secure Disks," Carnegie Mellon University Technical Report CMU-CS-97-118, July 1997, Carnegie Mellon University, Pittsburgh, PA USA.	
		J. HEIDEMANN and G. POPEK, "File System Development with Stackable Layers," ACM Transaction on Computer Systems, 1994, pp. 58-89, The Association for Computer Machinery (ACM) Press, New York, NY USA.	
		Y. KHALIDI and M. NELSON, "Extensible File Systems in Spring", Sun Microsystems Laboratories Technical Report TR-93-18, September 1993, Sun Microsystems Laboratories, Inc., Mountain View, CA USA.	
		S. KLEIMAN, "Vnodes: An Architecture for Multiple File System Types in Sun UNIX," Proceedings of the Summer USENIX Conference, June 1986, pp. 238-247, USENIX Association, Berkeley, CA USA.	
		K. MATTHEWS, "Implementing a Shared File System on a HIPPI Disk Array," Fourteenth IEEE Symposium on Mass Storage Systems, 1995, pp. 77-88, Institute of Electrical and Electronics Engineers, Inc., Piscataway, NJ USA.	
		J. OUSTERHOUT, A. CHERENSON, F. DOUGLIS, M. NELSON, and B. WELCH, "The Sprite Network Operating System, IEEE Computer, Feb 1988, pp. 23-36, Institute of Electrical and Electronics Engineers, Inc., Piscataway, NJ USA.	
		B. PAWLOWSKI, C. JUSZCZAK, P. STAUBACH, C. SMITH, D. LEBEL, and D. HITZ, "NFS Version 3: Design and Implementation," Proceedings of the Summer USENIX Conference, 1994, USENIX Association, Berkeley, CA.	
		D. ROSENTHAL, "Evolving the Vnode Interface," Proceedings of the Summer USENIX Conference, June 1990, pp. 107-117, USENIX Association, Berkeley, CA USA.	

Examiner	Date	
Signature	Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Please type a plus sign (+) ir	ıside this box → +
--------------------------------	--------------------

PTO/SB/08B (10-96)
Approved for use through 10/31/99. OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO		Complete if Known				
INFORMATION DISCLOSURE				Application Number	10/738,371	
			ISCLOSURE	Filing Date	12/16/2003	
STATEMENT BY APPLICANT		First Named Inventor	Soltis, Steven R.			
STATEMENT BY ALLEGAM			ALL LIVAN	Group Art Unit	2171	
	(use as many si	heet.	's as necessary)	Examiner Name		
Sheet	2	of	2	Attorney Docket Number	3000	

		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the	Γ
xaminer nitials	Cite No. ¹	item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
		R. SANDBERG, D. GOLDBERG, S. KLEIMAN, D. WALSH, and B. LYON, "Design and Implementation of the Sun Network File System," Proceedings of the Summer USENIX Conference, 1985, pp. 119-130, USENIX Association, Berkeley, CA USA.	
		M. SATYANARAYANAN, "Scalable, Secure, and Highly Available Distributed File Access," IEEE Computer, May 1990, pp. 9-20, Institute of Electrical and Electronics Engineers, Inc., Piscataway, NJ USA.	
	<u> </u>	M. SATYANARAYANAN, "Code: A Highly Available File System for a Distributed Workstation Environment," Proceedings of the Second IEEE Workshop on Workstation Operating Systems, Sept 1989, Institute of Electrical and Electronics Engineers, Inc., Piscataway, NJ USA.	
	•	S. SOLTIS, The Design and Implementation of a Distributed File System base on Shared Network Storage. PhD Thesis, University of Minnesota, 1997, University of Minnesota, Minneapolis, MN USA.	
		D. WILTZIUS and K. MINUZZO, "Network-attached peripherals (NAP) for HPSS/SIOF," Lawrence Livermore National Laboratory Technical Report, 1995. Available at http://www.llnl.gov/liv_comp/siof/siof_nap.html, Livermore, CA USA.	

Examiner	Date	
Signature	Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.